

Fig. 1

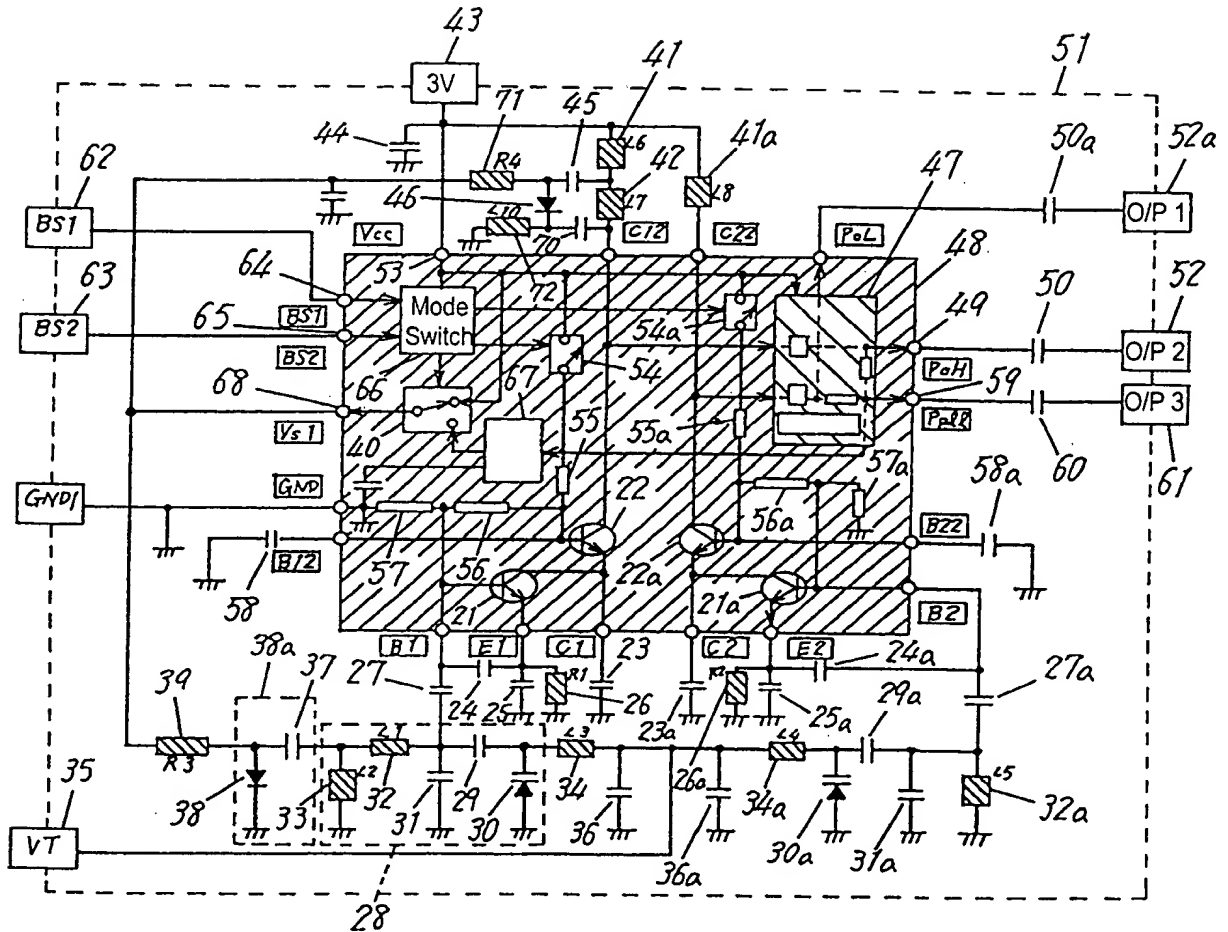


Fig. 2

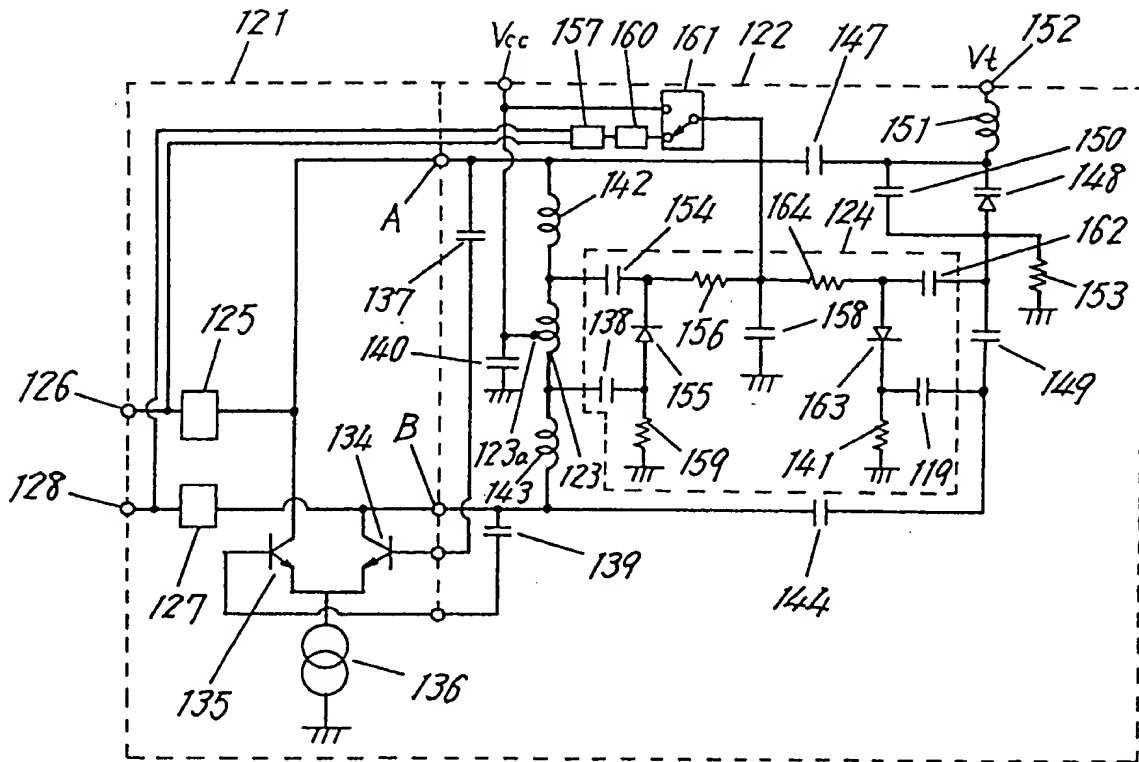


Fig. 3

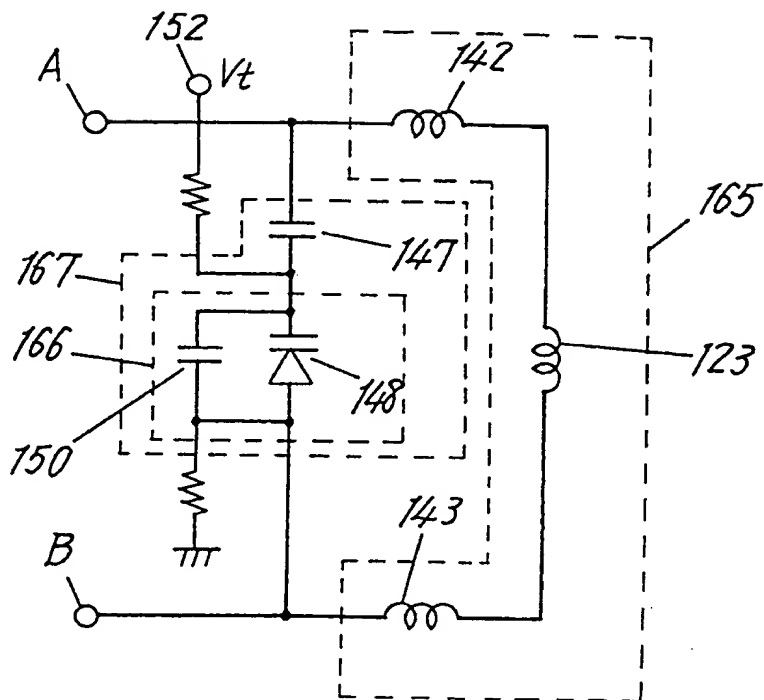
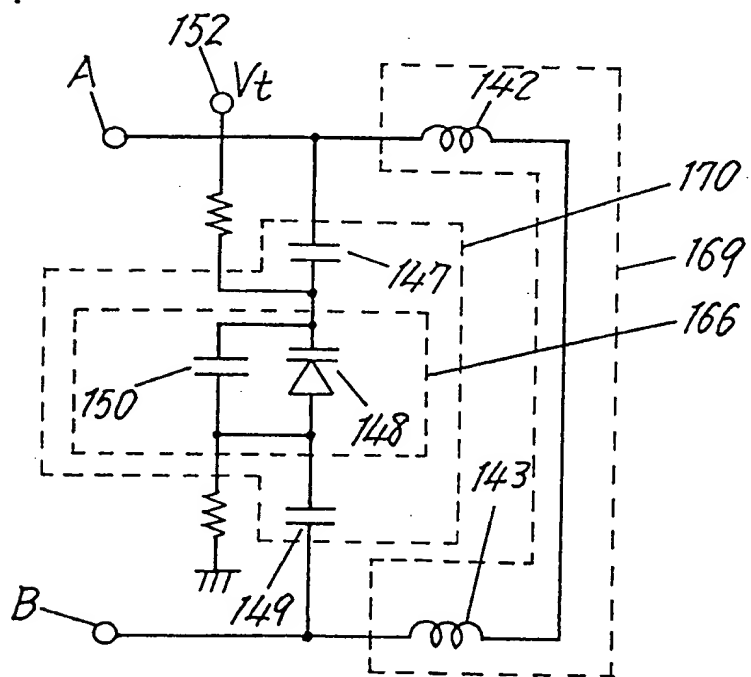


Fig. 4





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Fig. 5

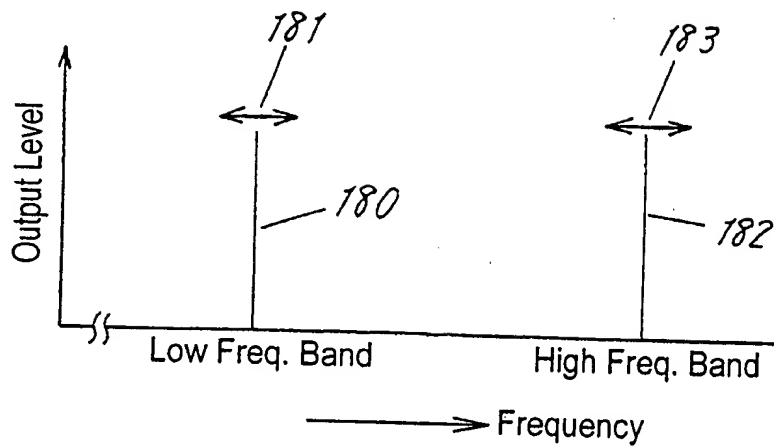


Fig. 6

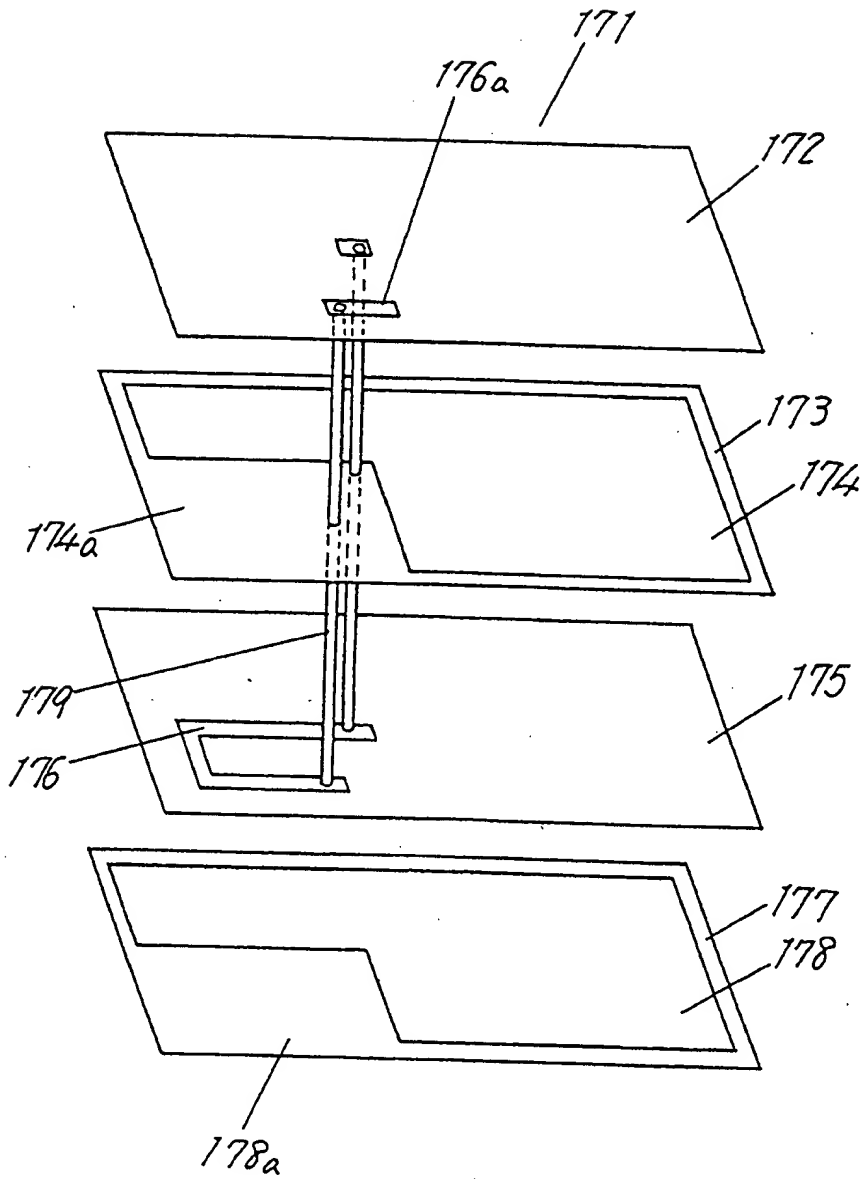
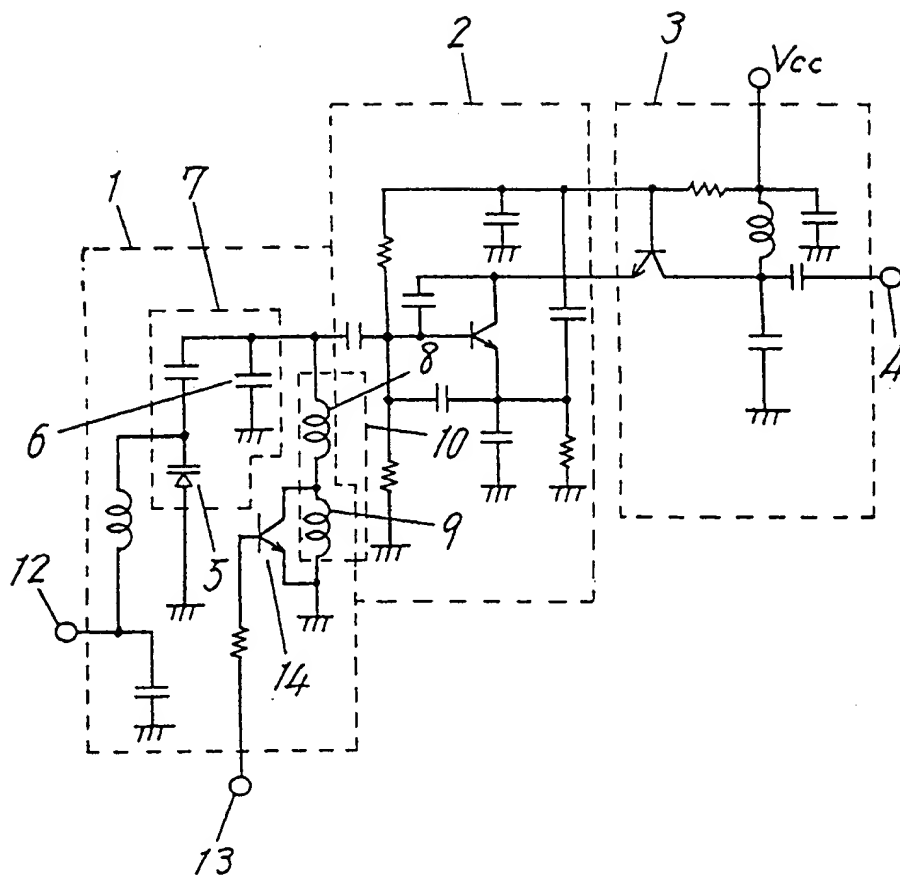


Fig. 7 Prior Art





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Reference Numerals

- 1 Resonant Circuit
- 2 Oscillator Circuit
- 3 Buffer
- 4 Output Port
- 5 Variable-Capacitance Diode
- 6 Capacitor
- 7 Parallel Assembly
- 8 Inductor
- 9 Inductor
- 10 Series Assembly
- 12 Control Port
- 13 Band Switching Port
- 14 Electronic Switch
- 21 Oscillating Transistor
- 21a Transistor
- 22 Buffer Transistor
- 22a Transistor
- 23 Capacitor
- 23a Capacitor
- 24 Capacitor
- 24a Capacitor
- 25 Capacitor
- 25a Capacitor
- 26 Resistor



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- 26a Resistor
- 27 Coupling Capacitor
- 27a Capacitor
- 28 Resonant Circuit
- 29 Capacitor
- 29a Capacitor
- 30 Variable-Capacitance Diode
- 30a Variable-Capacitance Diode
- 31 Capacitor
- 31a Capacitor
- 32 Inductor
- 32a Inductor
- 33 Inductor
- 34 Inductor
- 34a Inductor
- 35 Control Port
- 36 Bypass Capacitor
- 36a Capacitor
- 37 Capacitor
- 38 Diode
- 38a Switching Means
- 39 Inductor
- 40 Switching Means
- 41 Inductor
- 41a Inductor



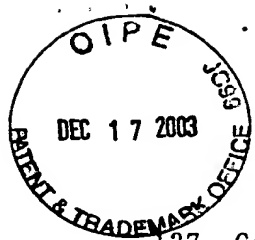
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- 42 Inductor
- 43 Positive Power Source
- 44 Bypass Capacitor
- 45 Capacitor
- 46 Diode
- 47 Output Circuit
- 48 Package
- 49 Port
- 50 Capacitor
- 50a Capacitor
- 51 Multi-Band Voltage-Controlled Oscillator
- 52 Output Port
- 52a Output Port
- 53 Port
- 54 Switch
- 54a Switch
- 55 Resistor
- 55a Resistor
- 56 Resistor
- 56a Inductor
- 57 Resistor
- 57a Inductor
- 58 Capacitor
- 58a Capacitor
- 59 Port



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- 60 Capacitor
- 61 Port
- 62 Port
- 63 Port
- 64 Port
- 65 Port
- 66 Mode Switching Circuit
- 67 Negative Source Generator
- 68 Port
- 70 Capacitor
- 71 Inductor
- 72 Inductor
- 119 Capacitor
- 121 Balanced Amplifier
- 122 Resonant Circuit
- 123 Inductor
- 123a Intermediate Point
- 124 Switching Means
- 125 Buffer
- 126 Output Port
- 127 Buffer
- 128 Output Port
- 134 Transistor
- 135 Transistor
- 136 Constant Current Source



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- 137 Capacitor
- 138 Capacitor
- 139 Capacitor
- 140 Capacitor
- 141 Resistor
- 142 Inductor
- 143 Inductor
- 144 Capacitor
- 147 Capacitor
- 148 Variable-Capacitance Diode
- 149 Capacitor
- 150 Capacitor
- 151 Inductor
- 152 Control Port
- 153 Resistor
- 154 Capacitor
- 155 Diode
- 156 Resistor
- 157 Balanced/Unbalanced Converter
- 158 Capacitor
- 159 Resistor
- 160 Negative Source Generator
- 161 Switching Means
- 162 Capacitor
- 163 Diode



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164 Resistor
165 Series Assembly
166 Parallel Assembly
167 Series Assembly
169 Series Assembly
170 Series Assembly
171 Multi-Layer Substrate
172 First Layer
173 Second Layer
174 Grounding Pattern
174a Pattern-Unformed Portion
175 Third Layer
176 Inductor
176a Inductor
177 Part of Inductor
178 Fourth Layer
179 Grounding Pattern
180 About 900MHz
181 Frequency Varied Range
182 About 1800MHz
183 Frequency Varied Range
A Port
B Port
Vcc Power Source